PRACTICE SET
End Semester Examination, Dec-2025

Program: BMRIT
Semester: I
Course: Human Anatomy
Course Code: 42BBMRIT001

Course Outcomes	Description
CO1	Describe the general anatomy of human body.
CO2	Explain normal disposition of various structures and organs in the body and its clinical correlation.
CO3	Describe the microscopic structure of varioustissues.
CO4	Determine the topography of various structures on the surface of the body.
CO5	Identify and locate structures of the body.
CO6	Identify organs and tissues under microscope.

Section- A: **(30** x 05 **= 150)**

1. Define anatomy. Explain its subdivisions and mention their importance in the study of the human body.
[Module- I, CO1, Remember, LOT]
2. Describe the anatomical terms of location and planes commonly used in the study of human anatomy withsuitable examples.**[Module- I, CO1, Understand, LOT]**
3. Write a short note on the structure and functions of cell organelles in a typical human cell.**[Module- I, CO1, Understand, LOT]**
4. Compare and contrast the different types of epithelial tissues with examples and explain how their structure relates to their function.**[Module- I, CO1, Analyze, HOT]**
5. Differentiate between serous and mucous glands based on structure, secretion, and examples. Discuss their physiological significance.**[Module- I, CO1, Analyze, HOT]**
6. Classify cartilage and describe the histological features and examples of each type.**[Module- II, CO2, Analyze, HOT]**
7. Classify bones with suitable examples and describe the parts of a long bone with a neat labelled diagram.**[Module- II, CO2, Analyze, HOT]**
8. Classify joints with examples and describe the structure of a typical synovial joint.**[Module- II, CO2, Analyze, HOT]**
9. Compare and contrast the histological features of cartilage and bone. Discuss how their structure relates to their function in support and movement.**[Module- II, CO2, Analyze, HOT]**
10. Describe short notes on any five important muscles of the body, mentioning their location, origin, insertion, and function.**[Module- II, CO2, Understand, LOT]**

11. Describe the size, location, chambers, and coverings (pericardium) of the heart with a neat labelled diagram.**[Module- III, CO3, Understand, LOT]**
12. Describe the systemic and pulmonary circulation, explaining the flow of blood through the heart and body.**[Module- III, CO3, Understand, LOT]**
13. Describe the branches of the aorta and mention the main arteries of the upper and lower limbs (any five).**[Module- III, CO3, Understand, LOT]**
14. Compare and contrast the structure and function of arteries and veins**.** Discuss the significance of portosystemic anastomosisand its clinical importance.**[Module- III, CO3, Analyze, HOT]**
15. Explain the parts of the respiratory system and explain the histological differences between trachea and lung tissue. Relate their structure to their function in respiration.**[Module- III, CO3, Analyze, HOT]**
16. Describe the parts of the oral cavity and write short notes on the tongue and salivary glands with their functions.**[Module- IV, CO4, Understand, LOT]**
17. Describe the parts of the stomach and the histological structure of the stomach wall with labelled diagram.**[Module- IV, CO4, Understand, LOT]**
18. Write short notes on theliver, gall bladder, and pancreas, mentioning their structure and functions**.[Module- IV, CO4, Understand, LOT]**
19. Compare the histological features of the esophagus, stomach, small intestine, and large intestine**.** Explain how these differences are related to their respective functions in digestion.**[Module- IV, CO4, Analyze, HOT]**
20. Recommend about the peritoneum and briefly explain its reflections, folds, and pouches. Discuss its clinical importance in abdominal physiology.**[Module- IV, CO4, Evaluate, HOT]**
21. Describe the structure and parts of the kidney and write short notes on the histology of kidney.**[Module- V, CO5, Understand, LOT]**
22. Summarise on the parts and histology of the urinary bladder and ureter.**[Module- V, CO5, Understand, LOT]**
23. Distinguish the endocrine glands of the human body and describe in detail the pituitary gland with its parts and functions.**[Module- V, CO5, Analyze, HOT]**
24. Design the histological structure of testis and ovary and explain how their structure is related to their reproductive functions.**[Module- V, CO5, Create, HOT]**
25. Explain the histology and functions of the thyroid and suprarenal glands. Discuss the effects of their hormonal secretions on body metabolism.**[Module- V, CO5, Analyze, HOT]**
26. Describe the structure of a neuron and write about the classification of the nervous system.**[Module- VI, CO6, Understand, LOT]**
27. Prepare ashort notes on the meninges, ventricles, and cerebrospinal fluid with their functions.**[Module- VI, CO6, Apply, LOT]**
28. Explain the parts of the eyeball and the lacrimal apparatus with a neat labelled diagram.**[Module- VI, CO6, Analyze, HOT]**
29. Compare the structure and functions of the cerebrum, cerebellum, and brain stem. Discuss their role in coordination and control.**[Module- VI, CO6, Analyze, HOT]**
30. Explain the process of spermatogenesis and oogenesis. Explain how these processes are essential for fertilization and formation of the zygote.**[Module- VI, CO6, Analyze, HOT]**

<u>Section- B:</u> **(15 x 10 = 150)**

31. Compare and contrast the different types of cartilage and bone tissues in terms of their structure, composition, location, and functional significance.**[Module- II, CO2, Analyze, HOT]**
32. Explain how the structure of a typical synovial joint supports its function. Describe how muscular action contributes to movement at these joints, giving suitable examples.**[Module- II, CO2, Understand, LOT]**
33. Classify bones and joints with suitable examples. Add a short note on the vertebral column and fontanels of the fetal skull.**[Module- II, CO2, Analyze, HOT]**
34. Explain the structural and functional relationship between the heart and the major blood vessels in maintaining systemic and pulmonary circulation. Add a note on the blood supply of the heart.**[Module- III, CO3, Analyze, HOT]**
35. Describe the structural organization of the respiratory system and explain how its anatomy facilitates efficient gas

exchange.**[Module- III, CO3, understand, LOT]**

36. Enumerate the major arteries and veins of the body and give their main branches or tributaries. Add short notes on the lymphatic system and important lymph nodes.**[Module- III, CO3, Understand, LOT]**
37. Explain how the structural specializations of the stomach, small intestine, and large intestine contribute to their respective functions in digestion and absorption.**[Module- IV, CO4, Analyze, HOT]**
38. Describe the liver, gall bladder, and pancreas in relation to their structure and functions. Add a note on their histological features and interrelation in bile and pancreatic secretion.**[Module- IV, CO4, Understand, LOT]**
39. Label the parts of the gastrointestinal tract and its associated glands. Write short notes on the peritoneum and its reflections, folds, and pouches.**[Module- IV, CO4, Remember, LOT]**

40. Explain the structure and functional adaptations of the nephron in relation to urine formation. Add a note on the histology of the kidney, ureter, and urinary bladder.**[Module- V, CO5, Analyze, HOT]**
41. Compare the structure and function of male and female reproductive organs. Explain how their histological features are related to reproduction.**[Module- V, CO5, Analyze, HOT]**
42. List the endocrine glands of the body. Describe the pituitary, thyroid, parathyroid, and suprarenal glands with their structure and histology.**[Module- V, CO5, Remember, LOT]**
43. Describe the structural and functional organization of the brain and spinal cord. Explain how cerebrospinal fluid (CSF) and meninges protect and support the central nervous system.**[Module- VI, CO6, Remember, LOT]**
44. Explain the anatomy and histology of the eye and ear, correlating structure with function in vision and hearing.**[Module- VI, CO6, Analyze, HOT]**
45. Classify the nervous system and name the major cranial nerves and nerve plexuses. Add short notes on the skin and its appendages, and stages of early embryological development.**[Module- VI, CO6, Analyze, HOT]** **[Module- III, CO3, Create, HOT]**

Section- C: **(05 x 20 = 100)**

46. Describe the skeletal and muscular systems in detail, highlighting their structural organization and functional correlation in locomotion and support.**[Module- II, CO2, Understand, LOT]**
47. Describe the anatomy and physiology of the cardiovascular and respiratory systems, emphasizing their structure, circulation pathways, and functional interrelationship in maintaining oxygen and nutrient transport.**[Module- III, CO3, Understand, LOT]**
48. Explain the anatomy and histology of the gastrointestinal tract and its associated glands. Explain how their structural specializations facilitate digestion, absorption, and secretion.**[Module- IV, CO5, Analyze, HOT]**
49. Reframe the anatomy, histology, and functional significance of the urinary system, male and female reproductive systems, and major endocrine glands. Illustrate the structural adaptations that support their physiological roles.**[Module- V, CO5, Evaluate, HOT]**
50. Explain the anatomy, histology, and functional significance of the central and peripheral nervous systems, sensory organs (eye, ear, and skin), and outline the process of human gametogenesis and early development.**[Module- VI, CO6, Analyze, HOT]**

Summary Sheet

COWise

CO	Q.No	Marks
CO1	1,2,3,4,5,	25
CO2	6,7,8,9,10,31,32,33,46	75
CO3	11,12,13,14,15,34,35,36,47	75
CO4	16,17,18,19,20,37,38,39,48	75
CO5	21,22,23,24,25,40,41,42,49	75
CO6	26,27,28,29,30,43,44,45,50	75
Total		**400**

UnitWise

Unit	Q.No	Marks
Module- I	1,2,3,4,5,	25
Module- II	6,7,8,9,10,31,32,33,46	75
Module- III	11,12,13,14,15,34,35,36,47	75
Module- IV	16,17,18,19,20,37,38,39,48	75
Module- V	21,22,23,24,25,40,41,42,49	75
Module- VI	26,27,28,29,30,43,44,45,50	75
Total		**400**

BloomsTaxonomyLevel(BTL)Wise

BTL	Q.No.	Marks
LOT	1,2,3,10,11,12,13,16,17,18,21,22,26,27,32,35,36,38,39,42,43,46,47	180
HOT	4,5,6,7,8,9,14,15,19,20,23,24,25,28,29,30,31,33,34,37,40,41,44,45,48,49,50	220
Total		**400**

Preparedby: - Mr. Amit Patra **Reviewed By- Mr. Abir Majumder**

Disclaimer: - This is a Practice Set. The Question in End term examination will differ from the Practice set. This Practice set is meant for practice only.